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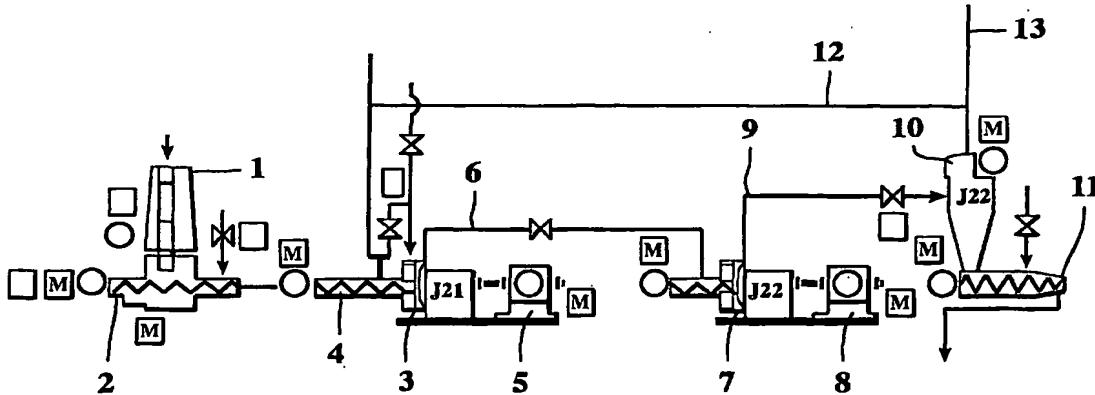
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(54) Title: METHOD AND APPARATUS FOR PRODUCING MECHANICAL FIBERS



(57) **Abstract:** The purpose of this invention is to provide a method and an apparatus for producing thermomechanical fibers using less energy per ton that has previously been required for similar type of production. The invention is based in that at least two refiners are combined so that mixture of chips, water and steam is first fed into a first refiner wherein the chips are broken up and the mass flow from the first refiner is then fed into the second refiner for breaking the fibers to final freeness level. The mass flow of steam and fibers is fed forwards at least in the first refiner by the rotational energy of the refiner rotor so that essentially no flowback of the steam occurs. The mass flow exciting the first refiner is fed completely to the second refiner and no steam is extracted from the mass flow before the second refiner.

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